

Township Road 522 Stage 2 Estimated Costs

2013 Approved Project Budget	\$6,704,880.00
CBA 1 (Nov. 2016) - Alberta Transportation Funds	\$1,826,680.00
Current Approved Funds	\$8,531,560.00
Budget spent/committed as of February 2, 2018	\$3,981,118.06
Engineering consultant budget committed/unspent as of February 2, 2018	\$527,359.51
Uncommitted balance remaining as of February 2, 2018	\$4,023,082.43

Stages Summary (See Enclosure 4):

Stage 2A: From 800m east of Hwy 21 to 150m west of Rge Rd 225 (Encl. 4 green section)

Stage 2B: Centre portion, including from 150m west of Rge Rd 225 to west of Rge Rd 224 curve (Encl. 4 red section)

Stage 2C: East portion, including the curve at Rge Rd 224 (Encl. 4 blue section)

Recommendation: Option 1 – Construct Stage 2C

2C Construction cost estimate (no contingency)	\$1,604,000.00
Remaining land requirements	N/A
Utility relocations	\$50,000.00
Stage 2C Subtotal	\$1,654,000.00
30% construction contingency (due to groundwater and construction risks adjacent to Big Island Lake wetlands)	\$496,200.00
12% Engineering services (construction phase)	See below Note
Stage 2C Costs	\$2,150,200.00
Stage 2B Land requirements (including \$300k for land expropriation related administrative costs)	\$359,000.00
Stage 2B Engineering cost contingency amount (due to potential for re-design)(See Note 1)	\$100,000.00
Recommended Option 1 – Grand Total	\$2,609,200.00

Note: These Engineering costs can be sufficiently covered under the existing committed/unspent consultant budget (see above).

Recommended Option 1 Summary:

- Construct Stage 2C in 2018, which includes the curve at Range Road 224
- Fund all remaining land costs, and if required any design modifications for Stage 2B, to ensure shelf-ready plans can be created for a future business case for Stage 2B.
- Propose to construct Stage 2A and 2B under a future separate capital business case. Any construction costs related to re-design stemming from land process would be included in the future business case in the 2019 capital budget.

Uncommitted balance remaining (as of Feb. 2018)	\$4,023,082.43
Recommended scope - Grand Total (see below)	\$2,609,200.00
CBA requested amount (decrease in cost)	-\$1,413,082.43 Rounded: -\$1,410,000

Option 2 – Construct Stage 2A and 2C

Option 1 Grand Total (Stage 2C construction)	\$2,609,200.00
Stage 2A (see below detailed summary)	\$2,970,500.00
Subtotal – Option 2	\$5,579,700.00
Uncommitted budget remaining	\$4,023,082.43
Additional budget required for Option 2	\$1,556,617.57

Option 2 Summary:

- Construct Stage 2A (west of Rge Rd 225) and Stage 2C (Curve at Rge Rd 224)
- Stage 2B (center section) construction costs will not be spent until the land acquisition process (possible expropriation) is complete, or further re-design to avoid the property is complete, which could be 1-2 years away. Stage 2B would be brought forward under a future business case in 2019 Capital budget.

Detailed Cost Summary Stage 2A (from 800m east of Hwy 21 to west of Rge Rd 225)

2A Construction cost estimate (no contingency)	\$2,075,000.00
Remaining land requirements	N/A
Utility relocations	\$100,000.00
Temporary widening to provide continuous width transition for the 150m gap to Rge Rd 225 (\$57,000 of this will be removed in future phase)	\$110,000.00
Stage 2A Subtotal	\$2,285,000.00
30% Construction contingency	\$685,500.00
12% Engineering services	See below Note
Stage 2A Grand Total	\$2,970,500.00

Note: These Engineering Costs can be covered under the existing committed/unspent consultant budget (see above).

Option 3 – Request funding for Stage 2A, 2B, and 2C (all Stages)

Option 2 Subtotal (Stage 2A and 2C)	\$5,579,700.00
Stage 2B amount (see below detailed summary)	\$3,496,040.00
Subtotal - Stage 2 (2A, 2B, 2C)	\$9,075,740.00
Uncommitted budget remaining	\$4,023,082.43
Additional budget required for Option 3	\$5,052,658.57

Option 3 Summary:

- Construct Stage 2A (West of Rge Rd 225) and Stage 2C (curve at Rge Rd 224) immediately
- Stage 2B (center section) construction costs will not be spent until the land acquisition process (possible expropriation) is complete or re-design is chosen as an option.

Stage 2B (centre portion, including from 150m west of Rge Rd 225 to west of Rge Rd 224 curve, See Enclosure 4 red section)

2B Construction cost estimate (no contingency)	\$2,412,000.00
Stage 2B Land requirements (incl. expropriation)	(included in above Option 1)
Stage 2B Design related costs	(included in above Option 1)
Utility relocations	\$50,000.00
Stage 2B Subtotal	\$2,462,000.00
30% Construction contingency	\$738,600.00
12% Engineering services	\$295,440.00
Stage 2B Grand Total	\$3,496,040.00